

WHAT IS CLAIMED IS:

1. A backlight assembly comprising:

a receiving container including a bottom plate and sidewalls protruded from

5 edges of the bottom plate to form a receiving space;

a light exiting device disposed in the receiving space; and

a liquid crystal display panel supporting member including a first supporting member frame portion, a second supporting member frame portion, a first particle interceptor and a second particle interceptor, the first supporting member frame

10 portion having an opening, an opening face formed in an internal face of the first supporting member frame portion to define the opening, and a connection groove carved from the opening face, the second supporting member frame portion being vertically extended from the first supporting member frame portion, the side face of the liquid crystal display panel that is to be mounted on the liquid crystal display

15 panel supporting member facing the inner side face of the second supporting member frame portion, the second supporting member frame portion fixing the liquid crystal display panel, the first particle interceptor being formed along the top face of the first supporting member frame portion facing the bottom plate of the liquid crystal display panel, the first particle interceptor having at least two cut portions near the 20 connection groove, the second particle interceptor being disposed between the cut portions to prevent particles from infiltrating into the first particle interceptor.

2. The backlight assembly of claim 1, wherein the second particle

interceptor includes a first body sticking to the side face of the first particle

25 interceptor, a second body extended from the first body and interposed between the

cut portions, and a third body connected to the second body and being substantially parallel to the first body.

3. The backlight assembly of claim 2, wherein the second particle

5 interceptor has an H-shape.

4. The backlight assembly of claim 1, wherein the second particle

interceptor includes a first body sticking to the side face of the first particle

interceptor, and a second body extended from the first body and interposed between

10 the cut portions.

5. The backlight assembly of claim 4, wherein the second particle

interceptor has T-shape.

15 6. The backlight assembly of claim 1, wherein the second particle

interceptor having a shape of band sticks to the side face of the first particle

interceptor.

7. The backlight assembly of claim 1, wherein the second particle

20 interceptor comprises polyethylenterephthalate (PET), and an adhesive material is

coated on a surface of the second particle interceptor.

8. The backlight assembly of claim 1, wherein the connection groove

combines with a protruded fixing portion of optical sheets.

9. A backlight assembly comprising:
a receiving container including a bottom plate and sidewalls protruded from
edges of the bottom plate to form a receiving space;
a light exiting device disposed in the receiving space; and
5 a liquid crystal display panel supporting member including a first supporting
member frame portion, a second supporting member frame portion and a particle
interceptor, the first supporting member frame portion having an opening formed in
an internal face of the first supporting member frame portion, the second supporting
member frame portion being vertically extended from the first supporting member
10 frame portion, the side face of the liquid crystal display panel that is to be mounted
on the liquid crystal display panel supporting member facing the inner side face of
the second supporting member frame portion, the second supporting member frame
portion fixing the liquid crystal display panel, the particle interceptor being formed in
a shape of a closed loop along a first face of the first supporting member frame
15 portion facing the bottom plate of the liquid crystal display panel, the particle
interceptor preventing particles from infiltrating into the particle interceptor.

10. The backlight assembly of claim 9, wherein the particle interceptor
corresponds to a particle intercepting protrusion formed on the first face of the first
20 supporting member frame portion in at least one row, and the particle intercepting
protrusion includes a material having flowability.

11. The backlight assembly of claim 9, wherein the particle interceptor
includes at least two rows of particle intercepting protrusions formed on the first face
25 being spaced apart from each other, and at least one row of particle intercepting

recess formed between adjacent particle intercepting protrusions.

12. The backlight assembly of claim 9, wherein the particle interceptor includes particle intercepting protrusions formed on the first face, and at least one or 5 greater number of particle intercepting recess formed on the particle intercepting protrusions.

13. The backlight assembly of claim 9, wherein the particle interceptor comprises silicon or rubber.

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14. A liquid crystal display apparatus comprising:
a receiving container including a bottom plate and sidewalls, the sidewalls protruded from edges of the bottom plate to form a receiving space;
a light exiting device disposed in the receiving space;
15 a liquid crystal display panel supporting member including a first supporting member frame portion, a second supporting member frame portion, a first particle interceptor and a second particle interceptor, the first supporting member frame portion having an opening, an opening face formed in an internal face of the first supporting member frame portion to define the opening, and a connection groove
20 carved from the opening face, the second supporting member frame portion being vertically extended from the first supporting member frame portion, the side face of the liquid crystal display panel that is to be mounted on the liquid crystal display panel supporting member facing the inner side face of the second supporting member frame portion, the second supporting member frame portion fixing the liquid
25 crystal display panel, the first particle interceptor being formed along the top face of

the first supporting member frame portion facing the bottom plate of the liquid crystal display panel, the first particle interceptor having at least two cut portions near the connection groove, the second particle interceptor being disposed between the cut portions to prevent particles from infiltrating into the first particle interceptor;

5 a liquid crystal display panel assembly mounted on the first supporting member frame portion, the liquid crystal display panel assembly being fixed by the second supporting member frame portion; and

a chassis that fixes the liquid crystal display panel assembly.

10 15. A liquid crystal display apparatus comprising:

a receiving container including a bottom plate and sidewalls protruded from edges of the bottom plate to form a receiving space;

a light exiting device disposed in the receiving space to exit a light;

a liquid crystal display panel that converts the light into an image light;

15 a liquid crystal display panel supporting member including a first supporting member frame portion, a second supporting member frame portion and a particle interceptor, the first supporting member frame portion having an opening formed in an internal face of the first supporting member frame portion, the second supporting member frame portion being vertically extended from the first supporting member

20 frame portion, the side face of the liquid crystal display panel that is to be mounted on the liquid crystal display panel supporting member facing the inner side face of the second supporting member frame portion, the second supporting member frame portion fixing the liquid crystal display panel, the particle interceptor being formed in a shape of a closed loop along a first face of the first supporting member frame portion facing the bottom plate of the liquid crystal display panel, the particle

interceptor preventing particles from infiltrating into the particle interceptor; and
a chassis received in the receiving container, the chassis covering edges of a
top face of the liquid crystal display panel.

5 16. A liquid crystal display apparatus comprising:
a display panel that displays an image;
a lamp that provides a light to the display panel;
a receiving container that receives the display panel and the lamp ; and
a top chassis combined with the receiving container to fix the display unit in
10 the receiving container, wherein a side face of the receiving container corresponds to
a side face of the top chassis, the receiving container has a protruding portion being
laterally protruded from a bottom plate of the receiving container, and the side face of
the top chassis is mounted on the protruding portion.

15 17. The liquid crystal display apparatus of claim 16, wherein the
protruding portion has a width greater than a thickness of the side face of the top
chassis.

18. The liquid crystal display apparatus of claim 16, further comprising
20 an adhesive material on the protruding portion of the receiving container, and
wherein the adhesive material seals a contacting portion of the protruding portion
and the side face of the top chassis

19. A device for forming a particle interceptor in a backlight assembly
25 comprising:

a base body that supports a liquid crystal display panel supporting member including a first supporting member frame portion having an opening and supporting a liquid crystal display panel, and a second supporting member frame portion extended from the first supporting member frame portion to fix the side face of the
5 liquid crystal display panel;

a dispenser having at least one nozzle to coat a material used for forming the particle interceptor in the first supporting member frame portion;

a supply member that provides the material to the dispenser; and

10 a transporting member that transports the dispenser to the first supporting member frame portion.

20. The device of claim 19, wherein the dispenser further comprises a compression roller to form a particle intercepting recess on the particle interceptor.

15 21. The device of claim 19, wherein the dispenser further comprises a charge-coupled device camera to change a moving direction of the dispenser according to a shape of the first supporting member frame portion